



REQUEST FOR INFORMATION

RFI 2007-008-KD

**BUILD, MAINTAIN, OPERATE and SUPPORT
CITYWIDE AUTOMATIC VEHICLE LOCATION SYSTEM**

Due Date: March 15 2007 by 4:00 PM (MST)

**CITY OF ALBUQUERQUE
1 CIVIC PLAZA
400 MARQUETTE NW
ALBUQUERQUE, NEW MEXICO 87102**

I. INTRODUCTION

A. PURPOSE OF THIS REQUEST FOR INFORMATION

The City of Albuquerque (“the City”) is issuing this Request for Information (“RFI”) seeking expressions of interest from individual organizations, corporations, associations, or similar entities, or joint ventures of same, to build, maintain, operate and support one or more Citywide, affordable, Automatic Vehicle Location (AVL) systems that would allow for real-time and historical tracking of City vehicles in an open standards environment.

B. BACKGROUND INFORMATION

Pursuant to City goals of efficient and effective government, the City is seeking an AVL system by issuing this Request for Information to build, maintain, operate and support one or more Citywide, affordable, Automatic Vehicle Location (AVL) systems that would allow for real-time and historical tracking of City vehicles in an open standards environment. This Request for Information focuses on systems that are both independent and can integrate existing and future systems. There is currently no appropriation to fund or subsidize this particular undertaking.

The City has already begun to build, maintain, operate, and support AVL systems in various departments. Each department is using different GPS units, communication technology, and software control applications:

- The Transit Department implemented an AVL for buses communicating on a cellular network.
- The Solid Waste Management Department have several real-time GPS units communicating over a different cellular network, as well as units that require downloading at the end of the day.
- The Police Department is building an AVL that will communicate in real time via a radio network that is planned for construction in 2007. Their AVL system is integrated with their CAD system, which the Fire Department also plans to use.

The City plans to expand the use of AVL across many different departments. The purpose of this RFI is to determine what options are available to the City to do so.

The City will provide functional analysts and contact personnel as appropriate to the solution.

The City desires solutions with as little customization to software systems as possible. However, open standards are essential for real-time data sharing.

C. STANDARDS

The City has defined the following standards for this initiative.

1. AVL System Types

This Request can apply to any or all of the three AVL system types below, or suggestions for other solutions:

- A. An independent AVL created for a single department and meeting specific department needs, but that is able to export the real-time data to a central City server for real-time use outside the independent system. The AVL system should include the ability to collect, transmit, store, and display AVL data as outlined in Standard 2 AVL Data Requirements below.
- B. An integrated AVL system that can collect, transmit, store, and display AVL data and read and display AVL data from other systems in real-time.
- C. The control application necessary to import data from independent AVL systems and record and display that data in real-time.

2. AVL Data Requirements

The AVL system must include the ability to send the following data in real time to a City server in either XML or other City approved open standard in such a way as the data can be displayed in real time and a history for the vehicle can be recorded and stored (A - D are required):

- A. Vehicle ID (must be user customizable)
- B. Time and date
- C. Vehicle Location
- D. Vehicle Speed
- E. Any other data the system collects

3. AVL User Requirements

A Citywide discussion of AVL system requirements led to the follow requirements and concerns about AVL.

- A. If a single AVL system is implemented by all departments it would have to be flexible enough in features and cost to meet all department's needs and budgets.
- B. A network based on cellular transmission must have reasonable monthly costs and minimal dead zones.
- C. A network based on a radio network must minimize start-up costs while providing a usable range.

- D. Real-time data must be able to integrate with existing City spatial data (GIS).
- E. GPS data refresh must be able to vary from at least once a minute (perhaps more for Police) to vehicles that report their position only when moved outside a designated zone or when they are “pinged.”
- F. AVL systems must be able to work together so different departments can share data.
- G. Tamper-proof units are essential
- H. Engine diagnostics capabilities are a requirement of some departments.
- I. Nearest dispatch tools are critical
- J. Optimal routing is important

4. AVL System Components

For each AVL system proposal the following components (as appropriate) must be specified:

- A. Vehicle hardware
- B. Real-time communication system
- C. Office hardware required
- D. Office software required
- E. Open standard method of sharing data in real-time (ie XML, SQL Server)

The City invites information and comments regarding these policy statements.

D. ADDITIONAL INFORMATION

- Please indicate an estimate of the number of resources your company would expect to provide to implement the proposed design(s).
- Please indicate an estimate of the amount of time your company would require to implement the proposed design(s).
- Please include a listing of the deliverables your company would normally provide to implement the proposed design(s).
- Please indicate whether your company’s services have been awarded a contract as a result of a competitive bid or competitive proposals for other governmental entities such as the GSA, State of New Mexico, or other state, municipality, or local government body.
- For information purposes only please provide an estimated figure or range of costs to implement the proposed design(s). This range will not be considered a proposal of cost.

II. CONDITIONS GOVERNING THIS RFI

A. SEQUENCE OF EVENTS

1. Release of RFI: This RFI is being issued on February 15, 2006 by the City of Albuquerque.
2. Acknowledgement of Receipt: The attached Acknowledgement of Receipt form must be completed to indicate an entity's interest in building, maintaining, operating and supporting one or more Citywide, affordable, Automatic Vehicle Location (AVL) systems that would allow for real-time and historical tracking of City vehicles in an open standards environment as further outlined in and consistent with this Request for Information. The Acknowledgement of Receipt form must be submitted and received no later than 4:00 p.m., local time, on March 15, 2007 to the following:

Kelli De Angelis, Senior Buyer
Purchasing Division
City of Albuquerque
1 Civic Plaza
Albuquerque, New Mexico 87102

OR

FAX (505) 768-3355

OR

Please direct electronic mail response to:

kdeangelis@cabq.ov

B. GENERAL REQUIREMENTS

To be considered, all responses shall comply with the requirements as shown above.

1. No Obligation: This RFI in no manner obligates the City of Albuquerque, or any of its departments, to pursue any contractual relationship with an entity that submits an Acknowledgement of Receipt form. The City further reserves the right to cancel this RFI at any time deemed to be in its best interest.
2. If one or more qualified entity(s) submit an Acknowledgement of Receipt form meeting the requirements and information of this RFI by the deadline date for receipt of RFIs, it may be anticipated that the City will then conduct a competitive sealed Request for Qualifications, Request for Bids or Request for Proposals at the option of the City.

3. Response Preparation Cost: Any cost incurred in responding to this RFI is borne solely by the interested entity.
4. Proprietary Data: This Request for Interest shall be open to public inspection after award of contract that may result from a subsequent Request for Proposals, except to the extent the entity designates trade secrets or other proprietary data to be confidential. Material so designated shall accompany the response and each page shall be clearly marked and readily separable from the response in order to facilitate public inspection of the non-confidential portion of the proposal. Costs and cost ranges shall be publicly available regardless of any designation to the contrary, at the time stated above. The City will endeavor to restrict distribution of the material designated as confidential or proprietary to only those individuals involved in the review and analysis of the responses. Entities are cautioned that materials designated as confidential may nevertheless be subject to disclosure under the New Mexico Inspection of Public Records Act (Sections 14/2/1 et seq, NMSA 1978).
5. Clarifications: All requests for clarifications are to be directed to:

Michael Rock, GIS Analyst
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103
505-768-2902
mrock@cabq.gov

APPENDIX A
ACKNOWLEDGEMENT OF RECEIPT FORM

**REQUEST FOR INFORMATION to
BUILD, MAINTAIN, OPERATE and SUPPORT
CITYWIDE AVL SYSTEMS**

In acknowledgement of receipt of this Request for Information, the undersigned is expressing an interest in building, maintaining, operating and supporting one or more Citywide affordable AVL systems pursuant to the INFORMATION and STANDARDS in this RFI.

This Acknowledgement of Receipt must be signed and returned to the City Purchasing Office no later than 4:00 p.m., local time, on March 15, 2007 as follows:

**Kelli De Angelis, Senior Buyer,
Purchasing Division
City of Albuquerque
1 Civic Plaza
Albuquerque, New Mexico 87102**

OR

FAX No. (505) 768-3355

OR

**Please direct electronic mail response to:
kdeangelis@cabq.gov**

FIRM: _____

ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP** _____

REPRESENTED BY: _____

TITLE: _____

SIGNATURE: _____ **DATE:** _____

PHONE NO.: _____ **FAX #:** _____

E-MAIL ADDRESS: _____

